Amendments to the Claims:

Following is a complete listing of the claims pending in the application, as amended:

CLAIMS

1.   (Currently Amended) A memory device comprising:

a memory; and

a plurality of ports for accessing the memory of the memory device, each port having a serial communications link for receiving from and transmitting to an accessing device, each port using a plesiosynchronous technique without transmitting a clock signal to receive symbols and using in-band symbols to transmit data and out-of-band symbols to transmit control information.

2.   (Original) The memory device of claim 1 wherein each serial communications link is connected to an accessing device via a point-to-point connection.

3.   (Original) The memory device of claim 1 wherein the plesiosynchronous technique oversamples data received via the serial communications link.

4.   (Currently Amended) ~~The memory device of claim 1~~ A memory device comprising:

a memory; and

a plurality of ports for accessing the memory of the memory device, each port having a serial communications link for receiving from and transmitting to an accessing device, each port using plesiosynchronous technique to receive symbols and using in-band symbols to transmit data and out-of-band symbols to transmit control information wherein each port includes a line driver with a fixed driver portion and a variable driver portion for DC-balancing.

5.   (Original) The memory device of claim 1 wherein the memory includes multiple banks and wherein multiple banks can be simultaneously accessed by different ports.

6.   (Original) The memory device of claim 5 wherein each bank includes multiple sections and wherein the multiple sections can be simultaneously accessed by different ports.

7.   (Original) The memory device of claim 1 wherein the memory includes a bank with multiple sections and wherein the multiple sections can be simultaneously accessed by different ports.

8.   (Original) The memory device of claim 7 wherein the multiple sections of the bank are configurable on a port-by-port basis.

9.   (Original) The memory device of claim 8 wherein the configuration information indicates to enable certain sections of the bank.

10.   (Original) The memory device of 1 wherein the ports are connected to the memory using time-division multiplexing.

11.   (Original) The memory device of claim 1 wherein the ports are connected to the memory using a crossbar switch.

12.   (Original) The memory device of claim 1 wherein control information is transmitted as a primitive.

13.   (Original) The memory device of claim 12 wherein a primitive includes two out-of-band symbols.

14. (Original) The memory device of claim 12 wherein control information includes a synchronization symbol.

15. (Original) The memory device of claim 1 wherein the plesiosynchronous technique includes inserting or removing symbols to compensate for variations between clock frequencies of the accessing device and the memory device.

16. (Original) The memory device of claim 1 wherein the ports share a single multiphase clock generator.

17. (Original) The memory device of claim 16 wherein the multiphase clock generator is a phase lock loop.

18. (Original) The memory device of claim 1 wherein an out-of-band symbol is a synchronization symbol that encodes a memory command.

19. (Currently Amended) A memory device comprising: a memory that reads and writes data; a multiphase clock generator that provides a multiphase clock signal; and a plurality of ports, each port for connecting to a serial communications link and for receiving data and control information via the serial communications link using a plesiosynchronous technique without transmitting a clock signal, wherein each port uses the generated multiphase clock signal generated by the multiphase clock generator.

20. (Original) The memory device of claim 19 wherein data is sent using in-band symbols and control information is sent via out-of-band symbols.

21. (Original) The memory device of claim 19 wherein each serial communications link is connected to an accessing device via a point-to-point connection.

22.   (Original) The memory device of claim 19 wherein the plesiosynchronous technique oversamples data received via the serial communications link.

23.   (Currently Amended) ~~The memory device of claim 19~~ A memory device comprising: a memory that reads and writes data; a multiphase clock generator that provides a multiphase clock signal; and a plurality of ports, each port for connecting to a serial communications link and for receiving data and control information via the serial communications link using a plesiosynchronous technique, wherein each port uses the generated multiphase clock signal generated by the multiphase clock generator and wherein each port includes a line driver with a fixed driver portion and a variable driver portion for DC-balancing.

24.   (Original) The memory device of claim 19 wherein the memory includes multiple banks and wherein multiple banks can be simultaneously accessed by different ports.

25.   (Original) The memory device of claim 24 wherein each bank includes multiple sections and wherein multiple sections can be simultaneously accessed by different ports.

26.   (Original) The memory device of claim 19 including multiple sections and wherein multiple sections can be simultaneously accessed by different ports.

27.   (Original) The memory device of claim 26 wherein the multiple sections are configurable on a port-by-port basis.

28.   (Original) The memory device of claim 27 including the configuration information storage.

29.   (Original) The memory device of 19 wherein the ports are connected to the memory using time-division multiplexing.

30.   (Original) The memory device of claim 19 wherein the ports are connected to the memory using a crossbar switch.

31.   (Original) The memory device of claim 19 wherein control information is transmitted as a primitive.

32.   (Original) The memory device of claim 31 wherein a primitive includes two out-of-band symbols.

33.   (Original) The memory device of claim 31 wherein control information includes a synchronization symbol.

34.   (Original) The memory device of claim 19 wherein the plesiosynchronous technique includes inserting or removing symbols to compensate for variations between clock frequencies of the accessing device and the memory device.

35.   (Original) The memory device of claim 19 wherein the multiphase clock generator is a phase lock loop.

36.   (Original) The memory device of claim 19 wherein a synchronization symbol encodes a memory command.